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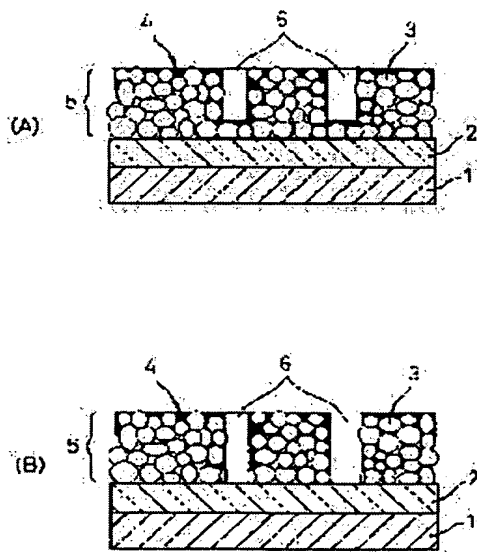
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(57)Abstract:

PROBLEM TO BE SOLVED: To provide a photocell with a cathode electrode of high quality capable of adsorbing a large molecule by a titanium oxide film as much as possible.

SOLUTION: A titanium oxide film 5 is composed to have at least one of pore 6 having 10-400 nm of diameter in a photocell provided with a cathode electrode having a transparent substrate 1, a transparent electrode 2 arranged on the substrate 1, the titanium oxide film 5 arranged on the electrode 2, and a sensitizer adsorbed in the titanium oxide film 5, so as to provide the photocell with the cathode electrode of high quality capable of adsorbing a large molecule by the titanium oxide film 5 as much as possible.

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